

Band Clamps

281



Product description

Band Clamps 281 are high-quality clamps used to hold together exhaust extension pipes or round parts where 360° sealing is not a key criteria. Oetiker Band Clamps 281 are engineered to operate reliably and safely under conditions of stress, vibration, corrosion and temperature variation. Multiple design and material variants ensure adequate efficiency, performance and long-lasting reliability for the application.

Intended use

Recommended where pipes need to be quick and easily connected, such as in exhaust or industrial applications.

Features Band Clamps 281



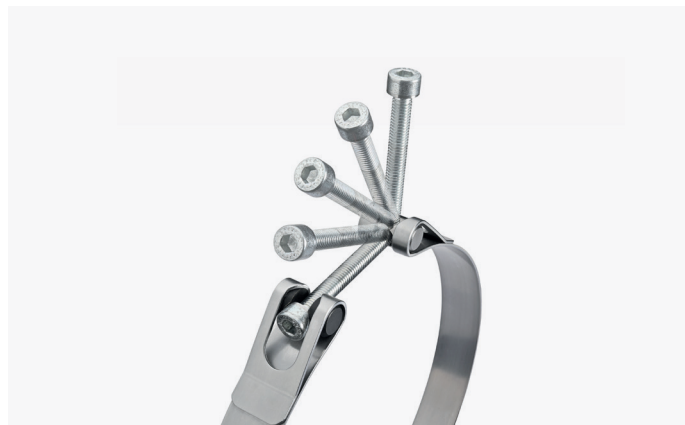
1 Precise low-friction screw: consistently delivers superior clamping force

2 Threaded trunnion:
Alternative with self-locking thread for high-vibration environments

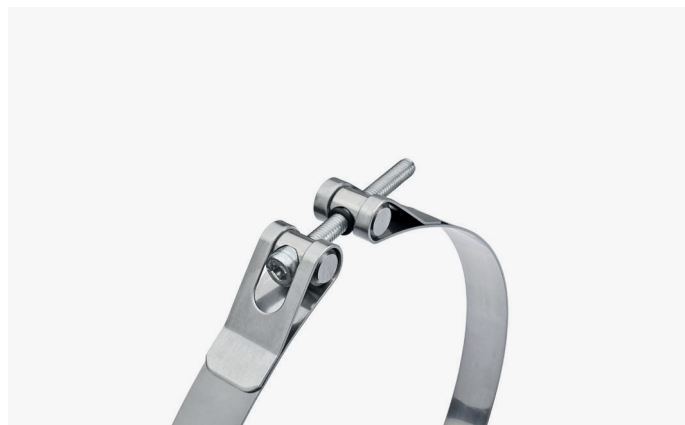
3 Quick-lock trunnion: effortless swing-action design, no alignment required
Alternative solid trunnion for higher torque requirements available (see below)

4 Band with deburred edges: avoids injuries

Quick-lock trunnion



Solid trunnion



Technical data

The best-suited Band Clamps 281 are determined based on the material of the parts to be connected and the application's requirements.

Material / Band dimensions

Material/size	20 x 1.0 mm	25 x 1.5 mm
1.4301 / AISI 304	x	x
1.4509 / AISI 441	x	x
1.4310 / AISI 301	x	
1.4404 / AISI 316L		x
1.4571 / AISI 316Ti		x

Screws

A4-70 or A2-70 stainless steel (M6)

A4-80 high-strength acid-resistant steel (M8)

Trunnions

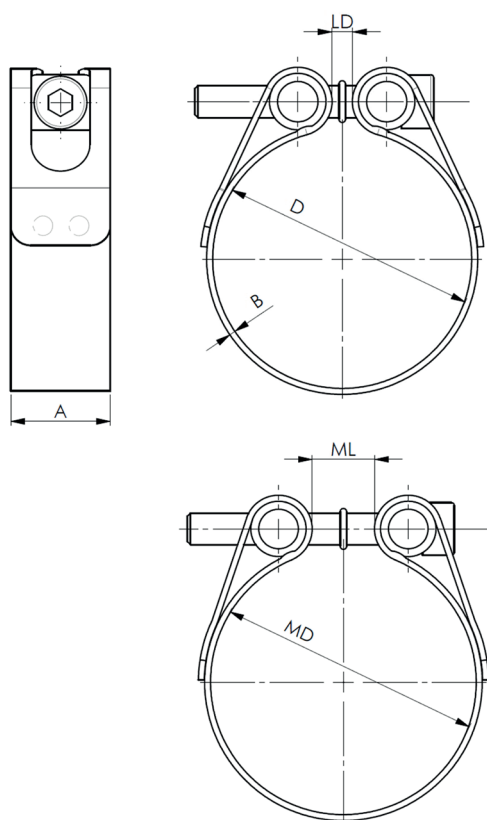
1.4305 / AISI 303 stainless steel

1.4021 hardened slotted trunnion

Configuration

Hardware	Band Width x Thickness	Bolt Thread x Length	Trunnion
M6	20 x 1.0 mm	M6 x 55 mm	Ø 11.5 mm
M8	25 x 1.5 mm	M8 x 70 mm	Ø 14.0 mm

Technical drawing



A = width in mm

B = thickness in mm

D = diameter (minimum) in mm

MD = diameter (maximum) in mm

LD = loop distance (on minimum diameter) in mm

ML = maximum loop distance (on maximum diameter) in mm

Diameter reduction (R) = MD-D

Assembly

Standard screw interfaces, such as an allen key or an external hex-head bolt, ensure compatibility with the customer's existing tools. Controlled installation tools are recommended; however, installation using manual torque wrenches is also possible but can result in higher clamp stress.

Hardware	Max. Torque [Nm]	Speed [Rpm]
M6 (quick-lock)	9	50-350
M6 (closed trunnion)	9	50-350
M8 (quick-lock)	17	50-350
M8 (closed trunnion)	20	50-350

Size range



No.*	Clamping size min [Ø mm]	Clamping size max [Ø mm]	Weight M6 [g]**	Weight M8 [g]**
1	64	67	81	156
2	67	70	82	158
3	70	73	84	161
4	73	76	85	164
5	76	79	87	166
6	79	82	88	169
7	82	86	89	171
8	86	90	91	175
9	90	94	93	178
10	94	99	95	182
11	99	104	97	186
12	104	109	99	191
13	109	114	102	195
14	114	119	105	200
15	119	125	107	204
16	125	131		210
17	131	137		215
18	137	144		220
19	144	151		227
20	151	158		233
21	158	166		239
22	166	174		247
23	174	182		254
24	182	190		261
25	190	199		268
26	199	208		276

* In 20 x 1.0 mm Band, only diameter groups 1–15 (64–125 mm) are available.

** Weight is approximate and includes fasteners (trunnions and stainless steel screws M6 x 55 for 20 x 1.0 mm and M8 x 70 for 25 x 1.5 mm).